

SECTION C
DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

1. **BACKGROUND**

Since its inception Harpers Ferry Center has provided for the production of wayside exhibit panels for all National Parks. While utilizing the entire range of production material available, a program has evolved which relies principally on three exhibit panel materials. These are fiberglass embedded screen imaged paper, porcelain enameled steel, and digitally imaged on various substrates. Of these three materials, the one most used to date has been fiberglass embedded screen imaged panels. This material and method is unique in its ability to provide for the most cost effective long term functioning. Utilizing the inherent economy of screen imaging allows for the production of a relatively inexpensive set of backup prints which are stored by the Harpers Ferry Center and subsequently retrieved from storage to be fiberglass embedded and delivered to the parks as necessary to replace worn or damaged panels. Fiberglass embedded screen imaged panels are also highly resistant to surface vandalism and provide the most ultra-violet fading resistance of any non-mineral imaging process.

2. **PURPOSE**

The purpose of this contract is to provide exhibit quality screen imaging compatible with various embedment and encapsulation processes on various substrates including wood, plastic, hardboard, and glass.

3. **SCOPE OF WORK**

A. SCREEN IMAGING SERVICES

Independently, and not as an agent of the Government, the Contractor shall provide services, including labor, materials, equipment and facilities (except as otherwise specified in this contract) to provide exhibit quality screen imaging compatible with various embedment and encapsulation processes and on various substrates including wood, plastic, hardboard, and glass. The Contractor shall also provide other services related to the rehabilitation of screen imaged exhibits including graphic layout, film mechanical preparation, embedment, and final exhibit panel inspection, sizing, finishing, packaging, and shipping.

B. STORAGE (ELECTIVE)

The Contractor shall provide storage facilities will operate a centralized, receiving, and shipping warehouse and will be required to maintain a computerized location list of all government owned production materials and by products for fiberglass exhibit panels in inventory.

C. TASK ORDERS

Work performed under this contract will be directed by the in accordance with the procedures outlined in Section G. In no event will the Government be responsible for any work performed by the Contractor that is not undertaken pursuant to a duly executed Task Order signed by the Contracting Officer, or other procedures identified in Section G.

Specifically, the following services are required:

A. SCREEN IMAGING

- (1) The ability to screen image in tight register in up to twelve colors, a sheet size range of 9" x 12" to 40" x 72" in editions of 12 to 40 copies per subject.
- (2) The capability to handle the above described screen imaging in groups of subjects (average 25 subjects) comprising one job. All production phases of the work involved shall be concurrent and continuous. Submission of full color press proofs of each subject prior to the production run shall be required.
- (3) The ability to print 100 line four-color process images in perfect register with match Color Key, Match Print or other color proofs approved by the Contracting Officer's Technical Representative (COTR) and outlined in each Task Order. If intended for embedment, the inks and paper used for this printing shall be compatible with the embedment process.
- (4) The ability to print fine line detail, including mezzotint and other special effect conversion screen images, 85 to 133 line half-tone images and 10 pt. type without discernable saw tooth edge.

- (5) The in-house capability to fabricate, image and wash out screens.
- (6) The capability to sheet and size paper stock from rolls.
- (7) The ability to mix and match ink colors to PMS color specifications or Government-Furnished color swatches.
- (8) The ability to hand paint illustrations following Government-Furnished samples, over a ghost image of the base illustration for subsequent trap by black overprint.
- (9) Equipment - Printing equipment shall be automatic, semi-automatic, or of the one man squeegee type, but shall have a vacuum platen covering the full image area. Drying shall be accomplished by either heated mechanical dryers or drying racks.

B. EMBEDMENT

- (1) Furnish fiberglass reinforced polyester resin embedments of compatible screen imaged material in sizes to 40" x 72" and thickness of .062, .090, and .125 inches.
- (2) Furnish other embedment/encapsulation processes approved by the COTR.

C. REHABILITATION

- (1) Provide new layouts from existing films involving the repositioning of graphic elements to accommodate additions or corrections to the original. The development of totally new layouts based on Government-Furnished concepts shall be required.
- (2) The ability to provide type composition required providing titles, text, and map and diagramming labels for exhibit films. This shall be new copy or additions or corrections to existing copy.

- (3) Provide map and diagram revision of existing films requiring scribed linework, hand cut or photographic “peelcoats” and new labeling. The creation of new maps and diagrams to be incorporated into existing or new exhibits shall be required.
- (4) The ability to provide altering to existing illustrations, or creation of replacement illustrations necessary for the revision of existing exhibit films or the creation of new films.
- (5) The ability to furnish necessary black and white or full color photographic prints required to rehabilitate existing exhibits.

D. **FILM MECHANICAL PREPARATION**

The contractor shall provide preparation of film mechanicals, positive or negative, which includes the development of graphic layouts based on Government-Furnished design concepts. This is intended to support the production of previously described screen imaging and shall involve specifically:

- (1) High quality typesetting.
- (2) Camera line and halftone negatives to 40” x 40” and contact and blow-back film positives to 40” x 72”.
- (3) Production of maps, employing up to eight colors, utilizing computer graphics software compatible with Macintosh Illustrator.
- (4) Assembly of film positive elements to color separated and registered Mylar flats required for the imaging processes detailed above in the Scope of Work.
- (5) Negative stripping of graphic elements for contacting to one-piece film positives for the production of etched and anodized exhibits.

- (6) Furnishing and stripping sets of four-color process negatives and positives, including color proofs.
- (7) Furnishing color separated and registered sets of blow-back film positives from sub-size four-color process separation negatives.
- (8) Furnishing “posturized” film images utilizing standard special effect screens, i.e., mezzotint, steel etch, plus posturization based on the regulated exposure halftone (screen tint) method. Also included are straight-line conversions from continuous tone images.
- (9) Blueline and “Dylux” proofing with surprinting.
- (10) Furnishing continuous tone black and white photographic prints and enlargements, some including photomechanically imaged surprinted borders.
- (11) Furnishing Cibachrome enlargements from Government-Furnished transparencies.
- (12) Furnishing high resolution digital film output of continuous tone and line art images.

E. **STORAGE (ELECTIVE)**

These services shall include, but are not limited to:

- (1) Maintenance of an exhibit panel inventory of approximately 700 cubic feet; with capacity to add 75 cubic feet per year;
- (2) Maintenance of inventory in a storage facility that is secure, humidity controlled, air conditioned, dust and rodent free, equipped with entry and fire alarms, well lit, and clean.
- (3) Receipt and delivery of exhibit panels for direct use;
- (4) Filling requests for exhibit panels;
- (5) Maintenance of an inventory locator system;

- (6) Delivery of exhibit panels to various National Park locations;
- (7) Receipt and storage of excess exhibit panels;
- (8) Operation and maintenance of a short-term storage area; and
- (9) Consolidation of freight and preparation of bulk shipments.

The Contractor shall maintain a computerized location list of all Government-furnished production material and by-products that can be sorted. This list shall be made available to the COTR upon request. The Contractor shall retrieve production material when requested by the COTR in each individual Task Order. The Contractor shall handle and package material in a safe manner so production material or by-products are not damaged. The Contractor shall ship material ship materials and exhibits in a manner that prevents damage during shipping and that packages can be traced.

The Contractor shall furnish other embedment or encapsulation processes approved by the COTR and resubmit prints when requested. The Contractor shall receive completed panel along with remaining production material, if any. The Contractor shall make completed panels available for inspection by the COTR within five working days of receiving completed panels. The Contractor shall place production material in storage upon completion of the job.